



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	)	
	)	
Eduardo Marban	)	Examiner: TBA
	)	
Serial No. 10/678,723	)	Group Art Unit: TBA
	)	
Filed: October 2, 2003	)	
	)	
For: FOCAL CALCIUM CHANNEL MODULATION	)	Atty. Dkt. No. 01107.00459

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Post Office Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Submitted herewith are two (2) sheets of Form PTO-1449. A copy of each of the references listed therein is enclosed. It is respectfully requested that the Examiner make his/her consideration of each of these documents formally of record.

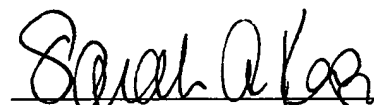
Since this Information Disclosure Statement is being filed before issuance of a first Office Action on the merits under 37 C.F.R. 1.97(b), it is submitted that no fee or certification is required. However, if a fee is required, please charge our deposit account no. 19-0733.

Respectfully submitted,

BANNER & WITCOFF, LTD.

Dated: April 8, 2004

By:



Sarah A. Kagan
Registration No. 32,141

Banner & Witcoff, Ltd.
Customer No. 22907

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/678,723
Filing Date	October 2, 2003
First Named Inventor	Eduardo Marban
Art Unit	1632
Examiner Name	TBA
Attorney Docket Number	001107.00459

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-5,436,128	07-25-1995	Harpold et al	
		US- 5,824,550	10-20-1998	Hruska et al	
		US- 5,965,396	10-12-1999	Pan et al	
		US- 6,156,726	12-05-2000	Newcomb et al	
		US- 6,365,337	04-02-2002	Letts et al	
		US- 2002/0009772 A1	01-24-2002	Snutch	
		US- 2002/0094326 A1	07-18-2002	Donahue et al	
		US- 2002/0155101 A1	10-24-2002	Donahue et al	
		US- 2003/0118988 A1	06-26-2003	Kandel et al	
		US- 6,605,274 B1	08-12-2003	Dillmann et al	
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FOREIGN PATENT DOCUMENTS

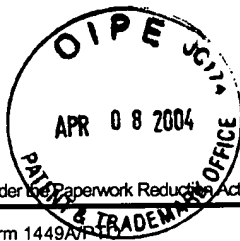
Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

Examiner
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Sheet 2

of

2

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Group Art Unit	1632
Examiner Name	To Be Assigned
Attorney Docket Number	001107.00459

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		MARBAN, "Cardiac Channelopathies", Nature, January 10, 2002, pp. 213-218, Vol. 415.	
		MAGUIRE et al., "Gem: An Induced, Immediate Early Protein Belonging to the Ras Family", Science, July 8, 1994, Vol. 265.	
		LEONE et al., "The Gem GTP-binding Protein Promotes Morphological Differentiation in Neuroblastoma", Oncogene, pp. 3217-3225, Vol. 20.	
		NEYROUD et al., "Gene Delivery to Cardiac Muscle", Methods in Enzymology, pp. 323-334, Vol. 346.	
		MARBAN et al., "Gene Therapy for Cardiac Arrhythmias", Cold Spring Harbor Symposia on Quantitative Biology, 2002, Vol. LXVII.	
		MIAKE et al., "Biological Pacemaker Created by Gene Transfer", Nature, September 12, 2002, pp. 132-133, Vol. 419.	
		DOLPHIN, "Mechanisms of Modulation of Voltage-Dependent Calcium Channels by G Proteins", Journal of Physiology, 1998, pp. 3-11, Vol. 506.1.	
		ERTEL, "Nomenclature of Voltage-Gated Calcium Channels", Neuron, March, 2000, pp. 533-535, Vol. 25.	
		BEGULN et al., "Regulation of Ca ²⁺ Channel Expression at the Cell Surface by the Small G-protein kir/Gem", Nature, June 7, 2001, pp. 701-706, Vol. 411.	
		CATTERALL, "Structure and Regulation of Voltage-Gated Ca ²⁺ Channels", Annual Rev. Cell Dev. Biology, 2000, pp. 521-55, Vol. 16.	
		WALKER et al., "Subunit Interaction Sites in Voltage-Dependent Ca ²⁺ Channels: Role in Channel Function", Elsevier Science, Ltd., 1998, pp. 148-154, Vol. 21.	
		TRIMMER, "Unexpected Cross Talk: Small GTPase Regulation of Calcium Channel Trafficking", Science's Stke, January 8, 2002, pp. 1-3.	

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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